Product data sheet
Characteristics

SR3XT141JD
discrete IO extension module, Zelio Logic SR2 SR3, 14 IO, 12V DC



Main

Range of product	Zelio Logic
Product or component type	Discrete I/O extension module

Complementary

Number or control scheme lines	120 with ladder programming
Cycle time	6…90 Ms
Backup time	10 years at 25 °C
Clock drift	12 min/year at 0…55 °C
Checks	Program memory on each power up
[Us] rated supply voltage	12 V DC
Supply voltage limits	10.4…14.4 V
Reverse polarity protection	With
Discrete input number	8 conforming to IEC 61131-2 Type 1
Discrete input type	Resistive
Discrete input voltage	12 V DC
Discrete input current	4 MA
Counting frequency	1 KHz for discrete input
Voltage state 1 guaranteed	>= 7 V for IB...IG used as discrete input circuit >= 5.6 V for I1...IA and IH...IR discrete input circuit
Voltage state 0 guaranteed	<= 3 V for IB...IG used as discrete input circuit <= 2.4 V for I1...IA and IH...IR discrete input circuit
Current state 1 guaranteed	>= 2 mA (I1...IA and IH...IR discrete input circuit) >= 0.5 mA (IB...IG used as discrete input circuit)
Current state 0 guaranteed	<= 0.2 mA (IB...IG used as discrete input circuit) <= 0.9 mA (I1...IA and IH...IR discrete input circuit)
Input compatibility	3-wire proximity sensors PNP for discrete input
Input impedance	14 kOhm for IB...IG used as discrete input circuit 2.7 kOhm for I1...IA and IH...IR discrete input circuit
Number of outputs	6 relay
Output voltage limits	24...250 V AC (relay output) 5...30 V DC (relay output)
Contacts type and composition	NO for relay output
Output thermal current	5 A for 2 outputs for relay output 8 A for 4 outputs for relay output
Electrical durability	AC-15: 500000 cycles at 230 V, 0.9 A for relay output conforming to IEC 60947-5-1 AC-12: 500000 cycles at 230 V, 1.5 A for relay output conforming to IEC 60947-5-1 DC-13: 500000 cycles at 24 V, 0.6 A for relay output conforming to IEC 60947-5-1 DC-12: 500000 cycles at 24 V, 1.5 A for relay output conforming to IEC 60947-5-1
Switching capacity in mA	>= 10 mA at 12 V (relay output)

Operating rate in Hz	0.1 Hz (at Ie) for relay output 10 Hz (no load) for relay output
Mechanical durability	10000000 Cycles for relay output
[Uimp] rated impulse withstand voltage	4 KV conforming to EN/IEC 60947-1 and EN/IEC 60664-1
Response time	10 ms (from state 0 to state 1) for relay output 5 ms (from state 1 to state 0) for relay output
Connections - terminals	Screw terminals, 1 x 0.25...1 x 2.5 mm² (24 AWG...14 AWG) flexible with cable end Screw terminals, 2 x 0.25...2 x 0.75 mm² (24 AWG...18 AWG) flexible with cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² (25 AWG...14 AWG) semi-solid Screw terminals, 1 x 0.2...1 x 2.5 mm² (25 AWG...14 AWG) solid Screw terminals, 2 x 0.2...2 x 1.5 mm² (24 AWG...16 AWG) solid
Tightening torque	0.5 N.M
Overvoltage category	III conforming to IEC 60664-1
Net weight	0.22 Kg

Environment

Product certifications	GL[RETURN]UL[RETURN]GOST[RETURN]C-Tick[RETURN]CSA
Standards	IEC 61000-4-6 level 3 IEC 61000-4-3 IEC 61000-4-2 level 3 IEC 61000-4-4 level 3 IEC 60068-2-27 Ea IEC 61000-4-12 IEC 60068-2-6 Fc IEC 61000-4-11 IEC 61000-4-5
IP degree of protection	IP20 (terminal block) conforming to IEC 60529 IP40 (front panel) conforming to IEC 60529
Environmental characteristic	EMC directive conforming to IEC 61000-6-2 EMC directive conforming to IEC 61000-6-3 EMC directive conforming to IEC 61000-6-4 EMC directive conforming to IEC 61131-2 zone B Low voltage directive conforming to IEC 61131-2
Disturbance radiated/conducted	Class B conforming to EN 55022-11 group 1
Pollution degree	2 conforming to IEC 61131-2
Ambient air temperature for operation	-20…40 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 -20…55 °C conforming to IEC 60068-2-1 and IEC 60068-2-2
Ambient air temperature for storage	-40…70 °C
Operating altitude	2000 m
Maximum altitude transport	3048 M
Relative humidity	95 % without condensation or dripping water

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.800 Cm
Package 1 Width	9.000 Cm
Package 1 Length	10.000 Cm
Package 1 Weight	197.000 G
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	6.480 Kg

Offer Sustainability

Recyclability potential, in %	10
Total lifecycle Carbon footprint	154 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	2.1229006776792296
Carbon footprint of the manufacturing phase [A1 to A3]	2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.06955474015481755
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	151.92035887435827
Carbon footprint of the use phase [B2, B3, B4, B6]	152 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.3716093018571787
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	154
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	Ab7a5df6-4d23-4fb1-96de-7c15d64130aa
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised